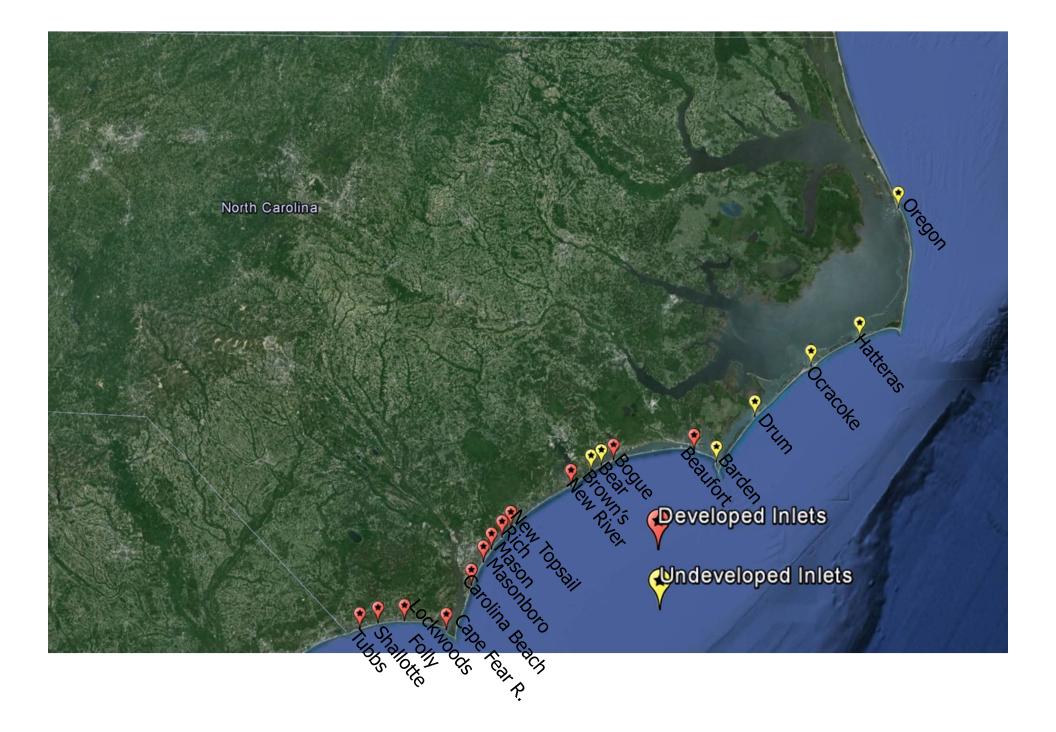


N.C. Division of Coastal Management Inlets in North Carolina

Matt Slagel Shoreline Management Specialist











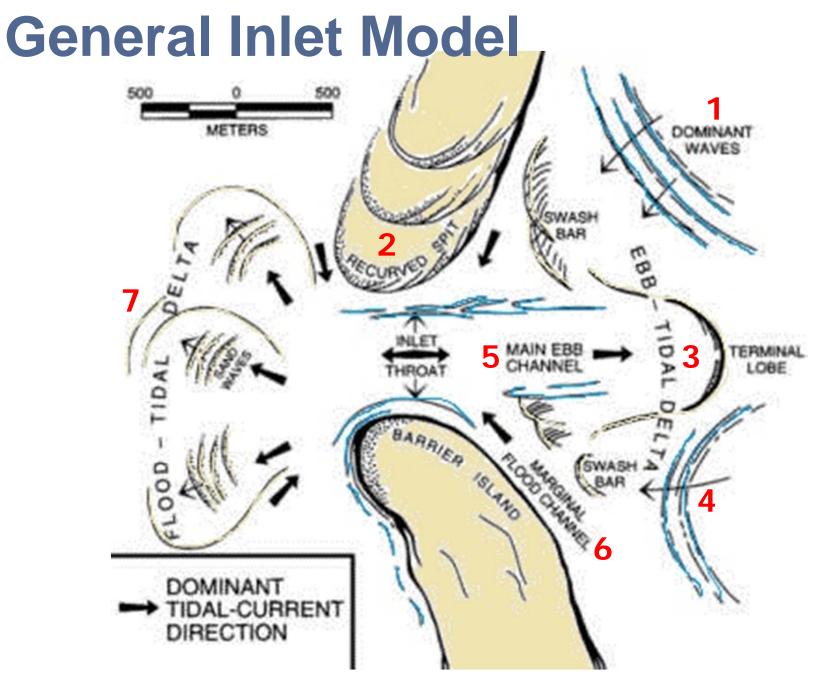
Deep-Draft



Caswell Beach

Bald Head

Leo Loo



From: Miles Hayes, 1980. General Morphology and Sediment Patterns in Tidal Inlets. Sediment Geol., 26, pp. 139-156.



N.C. Division of Coastal Management

Overview of Inlet Management

Doug Huggett Manager, Major Permits and Federal Consistency Section



Ocean Hazard Areas

- DCM jurisdiction includes:
 - Ocean Erodible Area
 - High Hazard Flood Areas
 - Inlet Hazard Areas
 - Unvegetated Beach Area
- Erosion rate-based setbacks based on size of structures
- Erosion-control structures
- Beach and inlet projects





Ocean Hazard Setbacks

Total Square Footage	Setback Factor	Setback Distance Based on Erosion Rate				
		2 ft/year	3 ft/year	4 ft/year	5 ft/year	6 ft/year
less than 5,000 sq ft	30	60'	90'	120'	150'	180'
5,000 - 9,999 sq ft	60	120'	180'	240'	300'	360'
10,000 - 19,999 sq ft	65	130'	195'	260'	325'	390'
20,000 - 39,999 sq ft	70	140'	210'	280'	350'	420'
40,000 - 59,999 sq ft	75	150'	225'	300'	375'	450'
60,000 - 79,999 sq ft	80	160'	240'	320'	400'	480'
80,000 - 99,000 sq ft	85	170'	255'	340'	425'	510'
100,000 sq ft or greater	90	180'	270'	360'	450'	540'



Inlet Hazard Areas (IHA)

- Areas especially vulnerable to erosion and flooding due to proximity to ocean inlets
- IHA boundaries designated in 1981
- Structures < 5,000 sf
- Density restrictions
- No dune building





Sandbags in Inlet Hazard Areas

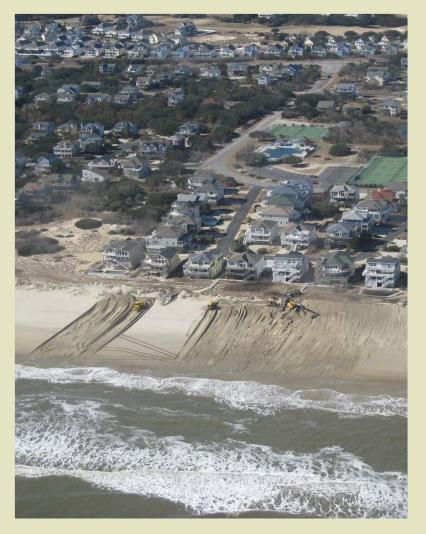
- If community is actively pursuing inlet relocation or stabilization project, sandbags may remain in place for <u>up to 8 years</u> from date of approval, and may be used <u>more than once.</u>
- Bags can be used to protect septic systems.





Bulldozing in Inlet Hazard Areas

- GP 1800 (15A NCAC 7H.1800) allows beach bulldozing landward of the MHW mark in the Ocean Hazard AEC, but <u>does not</u> apply to IHAs.
- 15A NCAC 7H.0308(b)(5)
 "no new dunes shall be created in inlet hazard areas."





Timing of Projects

 15A NCAC 7H.0308(a)(1)(F) states that "project construction shall be timed to minimize adverse effects on biological activity."



Sediment Criteria Rules

- Recent rule changes have reduced the burden on project applicants for sampling and analysis.
- Changes were based on DCM experience with implementing the rules.
 - Adequate sediment sampling is maintained.
 - Costs for applicants are decreased.



Beneficial Use of Dredged Materials





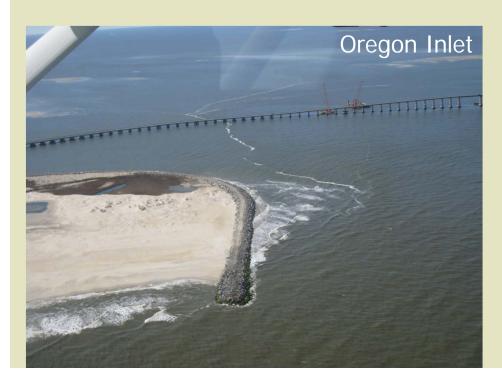
Inlet Channel Realignment





Terminal Groins

- SB 151 allows 4 terminal groins to be permitted
- In various stages of the process:
 - Bald Head Island, Figure Eight Island, Holden Beach, Ocean Isle Beach







DWR Shallow-Draft Inlets Study

- Study includes Bogue, New Topsail, Carolina Beach, Lockwoods Folly, and Shallotte Inlets.
- **Goal**: determine costs (time and money) of obtaining federal and state permits at the local level to dredge to current authorized dimensions and/or to deeper authorizations.
- Maintenance dredging agreement between USACE and DENR
- Shallow Draft Navigation Channel and Lake Dredging Fund – 50% of costs
- S.L. 2013-138: Permit streamlining for inlet dredging



http://www.nccoastalmanagement.net

